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The second second

A SERIOUS CONDITION FOR AMERICAN MEN TO FACE.

The statement of Dr. Lorenz that Amer. - | all the other countries he has visited the can women are the most beautiful in the women are as a rule interior physically to the would may be accepted with joy and confidence, but he goes on to say that while in | p y sique of the women, particularly the



THE OLD-FASHIONED HEROINE, HERO AND ADVENTURESS.

ENTERTAIN AWAY FROM HOME.

MORE FUN TO BE HAD AT RES-TAURANTS, PEOPLE SAY.

So Teas, Luncheons and Dinners Are Given in Corners of Semi-Public Places-The Custom Fits In With Well-to-Do New York's Mode of Living-Its Advantages

Whether or not all well-to-do New Yorkers will ultimately come to live in apartment hotels is a question which, of course, the future alone can answer. Probably the millionaires, at any rate, will keep to their own independent houses.

The inclination to live in the apartment hotel is, however, the most marked tendency in New York's social ways that has been exhibited for a long time. Since flats were first built there has been no such decided novelty in New York's manner of living.

One need only ride on the West Side elevated road to observe what a part they have come to play in the city's architecture. Nearly every side street possesses its apartment hotel towering above the dwelling houses that formerly held exclusive pos-

degree of comfort. This way of living has long ceased to be economical. It may be cheaper theoretically than maintaining a house but it will cost quite as much unless the entire manner of living is restricted, just as one's living space is. Nevertheless, the apartment hotels to day are crowded until more and more must be buit. not because they are inexpensive, but be-

cause they are convenient. Wealthy men and women who have social obligations and e j y social pleasures might never have taken to these hotels but for a change in New York's way of entertaining. Now it is quite as usual to give a dinner in a restaurant as in one's own house and there is not to-day a social function on the list that cannot be "pulled off." as the language of the ring would have it, just as well in a restaurant as in

a host's own house. And there is no question of the popularity of this way of entertaining. Young women who are just beginning to go out in society like a restaurant dinner better than a dinner at home because the life and variety of it are new to them. Older women like it because the monotony of dining in

private houses is in this way broken. Both men and women like it because there is much more to be seen in a restaurant than there ever is by any possibility at a private dinner Then there is a certain freedom from restraint that most men enjoy, wlaever the superferity of certain

private wines and cigars may be And although it may be a shock to some of those who are proud of their private chefs, the dinner is usually better cooked in a restau ant-provided, of course, that one goes alvavs to the right restaurant. Almost any restaurant is, in the opinion of some men. likely to cook a better dinner than the casual incumbent of the kitchen

Dances have always been given at restaurants in this city and there was a time when such entertainments were more common comparatively than they are to-day Formerly there were only two or three private ballrooms in New York. Now there are more, and in many city houses it is possible to give a very elaborate ball. But this is the only form of enter-taining that is less popular in the restaurants

than at home.

Dances are still given in restaurants by hostesses who have small houses and sometimes by those who have pienty of room, but find it less trouble to hire some place outside their own homes than to have the house turned inside out. For this same reason private musicals are given occasionally in restaurants and in the rooms of a certain exclusive Fifth avenue club unique in saving a room for the wives of its memin having a room for the wives of its mem-bers. There dinners are frequently given and the rooms are capacious enough for

d have

and the rooms are capacious enough for small dances as well.

nis new mode of entertaining in restaurants has had its effect in making popular the apartment hotel with persons who would ordinarily have found the comparative lack of space impossible in view of their duty or desire to entertain.

"Yes," said the manager of the most modish establishment on the avenue, "we arrange here nowadays nearly every kind of entertainment that could be given in a person's own house. And from the constant demand from persons who desire to entertain here. I am certain that this method of paying one's social obligations is growof paying one's social obligations is grow-

ing more popular.

"We do anything. To begin with the simplest form of trying to do in are a aurant twin-screw steamer plying upon any in-what used to be done in one's own house. land water in Maine.

significant in proportion. At this point t is time to stop and consider whether this fact, so plain to all who see, is matter for patriotic congratulation or not. Poor American man! Does he really need sympathy on this score? Is it neces-

"oung ones, is superb and that it makes the

y sique of t. e American man seem in-

ary to inquire where is this wonderful inrease in feminine physique to stop? From an asthetic s and point the great dature to which most of the young women admired.

But without borrowing trouble there's ury, the simple country maiden and the no disguising the fact that the "as Li\_h as girl who has earned her living in shop or my heart days" have vanished from this office, are of the same height. over five feet will say that in their girlhood they found themselves to boof the average height and that a girl of five feet six or eight was considered a r mely tall and as such girls happened not to be in fashion her athletic training and out-of-door life. they were generally rather pitied than

old traditions could be blotted out. always enjoyed every advantage and luxland. Helderly women who are only a little The people at large observe this mag-

nificent young creature with admiration and wonder. They are fond of speculating as to why she is so tall and the favorite, because the most obvious reason assigned, is That this is not the only cause is proved

by the fact that the boys who have the



CHANGED PROPORTIONS OF BRIDE AND BRIDESROOM.

attaln may be regarded as a mistake. No poet, no artist, no sentimentalist can readbrough countless generations that their eroines should be about a head shorter han their heroes.

To arrange this nowadays the heroes would have to approach seven feet in height. a thing which seems not at all likely to hapen, for the boys aren't keeping pace with he girls at all. And there's the difficulty,

A race of giants would be endurable could look straight over the heads of the masculine half of humanity so upsets all the good old cherished notions that it would take a few hundred years with an entirely new literature and art before the literature and art before the literature. The girl who has literature and art before the literature.

OF NEW CONGRESSMEN.

Indeed, in most truly sentimental stories | same athletic training, only a great dea of the period the heroines are often piken i more of it, by no means keep pace with their ust in a hurry the tradition handed down of as dainty Little fairies who could easily walk under the outstretched arm of the hero, while the adventuress was likely to be tall and commanding. To-day there are occasional small girls but they don't count. The fashions aren't made for them, neither are the sports and they must be exceedingly pretty and winning to escape insignificance. Heroines and adventuresses are alike tall and stately, and nov list and popular illussthetically, but a race of amazons who trators agree in making their eyes on a level with those of the hero. This is a faithful representation of nature

Girls of great stature are to be found eve ywhere and there are no class dis-

sisters. This may be partly accounted for by the fact that many boys drink and smoke it the early age when such practices would be likely to affect their growth. At any rate they are the same sort of average boys that were to be found fifty years ago and don't match well with the race of young oddesses who are developing. Peschel makes some interesting state-

ments in regard to the stature of people his country. One is that the descendar to of European emigrants have perceptibly ncreased in stature in the United States and that men here do not obtain their full growth until their thirtieth year. He

full gr wth until 30 but it seems that this explanation cannot apply to American women as their increase of height is of ecent manifestation.

Among aboriginal races in general the sprung so suddenly into existence nor why reasurements of the sexes throw very they threaten already to leave the men Among aboriginal races in general the

hange of locality, as the aboriginal race is | ences in stature almost disappears. Th also very tall and likewise does not attain average of stature among the Bushmen in fact is a little more for the women then

the men. When all is said no one knows exactly why this wonderful tall race of girls has



THE FASHIONS ARE ALL MADE FOR BIG WOMEN.

zeneral average of eight inches shorter stature for the women among the larger races and five inches shorter stature for the smaller ones. Peschel says that among little light on the subject. Keane gives a | where, will man be then!

tion with the perfect freedom and inde-pendence of thought and deed? And if

this strange luxuriance of growth makes the diminutive people such as F qu maux offengos. Akkas and Bushmen, the differyears that it has in the past, where, oh,

SHREWD WOMEN CROOKS. In Criminal Walks the Sex is Keeping Well Up With Man.

From the New Orleans Times-Democrat. "Women are making progress along more than one line," remarked an old member but diamond mining in Kimberley undoubtedly will continue for many years to come.

The largest diamond ever discovered is still in the hands of the De Beers Company, for as yet no bidders have been found for has heretofore been confined to offeness of the daytime or of the early part of the night. But here comes a story from Tennessee of the arrest of several women who belong to a gang of expert cracksmen, and who actually took part in a safe-blowing in a small town near Nashville, where they robbed

"Women have often developed into expert forgers, as for instance in the recent case of an American woman abroad who succeeded in conducting a forgery scheme for a con-

thing he may have before be will ever dream of anything wrong.

"In that kind of villfering, too, peculiar to kleptomapia, she is more successful because in this instance of the way she dresses and woman's peculiar demeanor around the counters in dry goods stores. If a man, for instance, should go into a dry goods store and begin to pick up little thiags and fumble over them, apparently for the purpose of inspection, he would at once arouse the suspicion of every clerk within visual range. On the other hand, a woman may do exactly the same thing without exciting the least suspicion. It is simply looked upon as a matter of comparative ease for the kleptomanna."

"But the woman safe-blower is a new type. as far as my experience goes, and I suppose it simply means that the police of the country will soon be confronted with many new problems in dealing with the female offender."

HYPNOTIZED BY FLAME. Florida Man's Story of How He Got a Bad Burn.

From the Cincinnati Enquirer. MOUNT CLAIRE, Fla., Dec. 21 .- A remarkble story of the hypnotic influence of fire upon a well-known Floridian named Thomas Matthews is reported here. The unknown force impelled him to thrust his hand and arm into the blaze and hold it there while his flesh blistered and burned, and he was only saved from a more horrible fate by his daug' ter discovering his predicament and pulling I im away from the fire.

He says he was sitting in front of the stove with the door open, and t is gaze became concentrated upon the flas' ing mass of embers and less ing tongues of flame. He became and less ing tongues of flame. He became fascinated. He was as a statue, unable to move. The dancing demons of the flames seemed to possess and control I im. A force which he could not resist impelled I im to throw himself into the fire and bathe in the leaping beauty of the flames. This he could not do because of the fire he and bathe in the leaping beauty of the flames. This he could not do because of the fire he ing confined in a smell stove. But the mysterious force impelled him to thrust is hand and arm into the flames and old them there. This is edid. There is no sensition of pain, rather oils of joy, that the enthusing warmth was entering thood and stimulating tim.

Attracted by the smell of burning flesh is oldest daughter entered the room and stood for a moment horrified by the spectacle, Quickly, owever, she recovered, clasped her to the rabout the neck and dragged tim back from the flesh was removed be realized the orror of the situation and almost swooned.

The shooting stars were all half shot; The moon was full on just one bot; The Ganini were getting gay On milk runch from the Milky Way Venus and the lady stars Were dining out with old boy Mars.

Got in a fight And threw the Dipper with all his might. Which made the Great Bear take to flight. But the din of this heavenly New Year's fun Disturbed the sleep of the morning sun.

He straightway rose and turned on Faf. And the reveiling stars were scared away.



## suppose a young woman wanted to have a dozen or more friends in to tea just as she WASHINGTON SOCIAL GU.DES.

would in her own house.
"Of course she won't want a private room "Of course she won't want a private room. Private rooms are now at a discount for all kinds of dinner parties except tho e at which the guests want to stay very late and enjoy themselves afterward with music or some other form of enlivenment imposible in p b is. But for lunch o s and dinners the private room is out of style.

to a luncheon here is never

own florist. Of course, the number of the flowers used and the manner of the decora-

and depend upon the amount she desires

o spend.

"For dinners we make the same arrange-

NEW IN MAINE LUMBERING.

Biggest Log Carrier in the World and a

Twin-Screw Steamer Ready for Spring.

been completed between Eagle and Cham-

cause the bringing of many million feet

of lumber down the Penobscot River to

the saw mills of Maine, which under the

conditions that have prevailed since lum-

bering began in Maine would go down

the St. John River to New Brunswick mills,

The log carrier runs over the rising

ground that divides the watershed of the

Allegash River and the east branch of the

Penobscot, the Allegash being a tributary

f the St. John. The carrier is 3,000 feet

long and its cable is 6,000 feet It is built

to last for years, and when running at its

regular speed will deliver seven 30-foot

logs a minute, or about 4,000,000 feet a

day It will carry at a time 100 logs of

The cable is of steel rope, an inch and

a quarter in diameter, and weighs 100 tons.

The motive power for operating the plant

connected with the carrier consists of a Nestinghouse automatic compound engine of 150 horse power and two 60 horse power boilers of the locomotive type. The c rrier will be in use for the first time when the

be of the twin-screw type. It will have the distinction of being the first and only

that length.

although the logs were cut in Maine.

Most of Them Unable to Win Social Sucble in p b is. But for lunch o s and dinners the private room is out of style.

"well, take that afternoon tea for, say, fifteen, men and women, or merely women. In a corner of the room I arrange a table at which five or six persons may sit if they want to. Then another table is put near that one and chairs enough for all are provided. cess Unalded -Dutles of the Coach -Field Open to Women of Position -Newcomers Who Make Their Way.

WASHINGTON, Dec. 27 .- When a man is elected to Congress he has fought only half the battle. On entering Washington

that one and chairs enough for all are provided.

"Then I may prove the palms about a bit in order to m k the corner a little more secluded. The large table is of course supplied with the tea and whatever the young woman may want in the way of cakes and such delicacies.

"There will, of course, be pretty china and silver on the tables and flowers if the hostess wants them. Then there is a waiter to look after the comfort of her guests.

"Scarcely an afternoon passes that we do not have several teas of this kind. Luckily the room has plenty of corners and enough parties can be accommodated to keep our patrons from having to go elsewhere. All our patrons say that they know their g tests have a much better time here than when they are invited to their houses.

The social history of Washington shows that from Presidents down to members of the lower house the majority of men have been self-made, or, at least, have risen from a humble station in life. In nine

from a humble station in life. In nine session of these streets.

And the new hotels of this kind are almost as expensive as a single house, if a tenant desires to live with anything like the same

houses.

"The luncheors that we arrange here for ladies are different in only one particular from those given in private houses. The number of guests that a lady invites and married. Political success for the number of guests that a lady invites and married. Political success for the number of guests that a lady invites and married. husband means new social duties for the

fourteen.

"More often there are even fewer. Ten is the usual number. If it is possible I spread a table for a party of this kind in Without much difficulty she assume her position in the small city where her husband holds an office of some import-"The silver and china are of course beau- ance. Small wonder that her husbares tiful. The flowers are entirely a matter of the hostess's choice. She can order them from me or have them sent in by her progression to the National Capital fills her with only pleasurable anticipations. Envied by her women friends and showered with kindly, if useless, advice, she lends herself to the most fashionable modiste tions are things that rest entirely with her in town and to happy visions of new social

worlds to conquer. They invade Washington. They entertain, which is necessary. They are entertained, which is customary.

refor dinners we make the same arrangements; and but for the number of guests the dinners given here are the same that one would find in a private house.

"It is, of course, quite possible that the linen, silver and china are not so fine as some millionaires may possess; but they are fine enough to serve for any ordinary. To do honor to the first occasion sh dons her most elaborate frock and takes one last complacent glance in her cheval are fine enough to serve for any ordinary glass. Then comes the awakening. For a dinner of this kind we see to it that

Passing that line of receiving women "For a dinner of this kind we see to it that the service is not too fast, but moves slowly, as it would in one's own house. Dinners of this kind begin, usually at 8 o'clock, although I have known them to be later.

"Four or five years ago the place chosen for such a dinner was always a private room; but now it is always given in the large rooms. That seems to be half the pleasure of dining in a restaurant—to be with the rest of the people, even though it is a private dinner. irreproachably gowned and groomed, she reads pitying amusement behind the few words of perfunctory greeting and the fleeting smile. If must be her gown, she reasons, and, having raid her respects she slips into a corner and studies the frocks and bearing of these women, who know Washington ways. "Dances, of course, we have arranged for years. The functions that are rarest here are the weddings. Usually we have them only when the guests are strangers in New York."

She cannot define the difference, but it exists. Moreover, she finds her usual volubility checked by an indescribable shyness. In a word, she realizes that she has stepped into a new world filled with social pitfalls and snares. She goes back to her hotel dismayed, and she lies awake

And the manager might have added that, fond as New York now is of having a good time in public, it still prefers to have the domestic element in its weddings; so they are celebrated in church or at home. the rest of the night thinking it all out. If she is daring and self-reliant she recalls something a well-known foreigner has written about the adaptability of the American women, and vovs that she will stand or fall on this quality. If she is cau-

tious she at teals to a coach.

The coach is a woman rich in knowledge of Washington customs, of good family well breu, well groomed and well gowned BANGOR, Me., Dec. 25.-There has just Perhaps there have been financial reverses in her family. Perhaps she is ambitious and independent. Ho ever this may be, she must be of the berlain lakes in northern Maine the longest log carrier in the world This carrier will

socially elect, and consequently to be approached with due diplomacy. There must be nothing said about a fee, no agreement, no conversation about terms. But some day there arrives in the coach's mail a check from her rupil.

The coach, having assumed the respective The coach, having assumed the respon

sibility of the woman's social future, goes about her work in the most systematic fasmon. For a while she is almost constantly at her patron's elbow.

The first lesson is, "Who is who and how shall you greet them." The right of preshall you greet them." The right of pre-cedence, how to avoid the incongruous issuing of invitations—that is, inviting opposing factions to the same function— and a nice discrimination in greeting are

and a face discrimination in greeting are taught. For instance, a hostess may per-sonally like an individual temporarily under the ban of Washington society, but received by right of official precedence. For such meetings she must cultivate what

is known as a frigid graciousness.

The coach overhauls her patron's wardrobe. "Good frocks well made," is the
motto-frocks that absolutely suit the
personality of their owner. If small town
fashions war with this personality, then
everything is cast aside. everything is cast aside. The coach's pupil places herself unre-servedly in the hands of an artist selected by the coach, and, if quiet elegance suits

driving begins next season, that is, about the first of May.

At the same time its owners will launch into Chamberlain Lake a steamboat for towing logs across the lake which will be a revelation to old-time log drivers. This boat will have a length of 70 feet and will he of the twin-scraw type. It will have her style, she must attain it, even though her heart yearns for the flesh pots of Egypt in the form of red and burnt orange. If her patron is particularly obtuse the coach handles her correspondence, though it has become essential for a woman really in the Washington swim to have her private in the Washington swim to have her private secretary. Under the coach's tutelage she also cultivates her memory for faces

COACHING NEEDED BY WIVES

and names, she acquires a graciousnes with a modification of voice and manner, and, in fact, goes through a course of social grooming which can be compared only to that of the young girl sent to a fashionable school for her finishing.

The the two calls are for social favors passes successfully the crivicism of those who have gole before her on the thorny path, and enjoy warching the trials of those who follow, the coach breathes a sigh of relief and feels that she has gathered laurels in her unique profession.

The most retable coach in Washington is now private secretary of the wife of a high officer of the Government. She previously filled a like post with the wives of o her well-known public men. She was a society girl, observant and popular, compelled by adverse circumstances to turn her social talent to financial account. An experienced coach cun look after the interests of several patrons, particularly of the latter as amenable, and the words.

does, however, she receives a warm come, for she has won hosts of fiends. Generally speaking, however, the woman who scorns the services of the coach finds preakers ahead. Official circles are still preakers ahead.

aughing over an incident which marked A newcomer g v a dinner without the aid or consent of any coach or well-versed

aid or consent of any coach or well-versed friend. The result was that the guests, one and all, were affronted by the table arrangement, for they were seated without reference to their official rank. To make things worse, the hostess had a new force of servants, inefficient and ill-trained, and her butler, having been taken suddenly ll, was replaced by the one first at hand.

The soups were served cold, and as much of the wine as had escaped the peculations of the kitchen force came on warm. The uffair was brought to a dismal and hopelessend by the hostess's giving vent to an ungovernable temper, voiced in a vocabulary which drove the guests from the lining room and the servants from the kitchen. All this might have been avoided by a judicious expect to the coach.

a City Zoo.

From the Cincinnati Commercial Tribune other labor-saving devices, and has proved nvaluable to the Zoo.

Not long ago a number of rats and stray

cats iscovered that the Zoo was a splendid place for foraging, and that game birds, such as pheasants and quail, were num rous in the big enclosure. All that was necessary ong to also find a remedy for the trouble

every now and then, and it did not take him long to also find a remedy for the trouble. While the Zoo management is willing to replace its animals and fowls that fall victims to ordinary dis asses or accidents, it has no desire to furnish food for all the rolents and I lines in Avondale, and Mr. Stephan immediately set about putting an end to the free lunches. One evening, after he had retired to rest, a suspitious noise in the locality of the obeastnt enclosure caused him to dress hastily and repair to the spot. As he approached he noted a large and rusty-looking rat taking French leave over the fence, with a handsome pheasant in its mouth. Mr. Stephan said things that would not look well in print, and sat up the rest of the night, waiting to slay any other rats that might appear on a like errand, but without r suit.

The next day Mr. Stephan did some deep thinking, with satisfactory results. A wire was stretched along the top of the fonce and connected with a live electric light wire. When the garden was closed for the night the current was turned on, and the superintendent went to bed convinced that there would be lively times for any animal that tried to cross the troth the had prepared for the enemy. Nor was he wrong.

At daybreak several large and well-fed rodents were discovered as dead as the proverbial door nail on the outside of the fence, where they had fallen aft recoming in contact with the charged wire. The next night Mr. Stephan was awakened by a wail of pain and surprise that made the air vibrate. At first he thought the animals were holding a political meeting in the carnivora, but another how put him at ease. It was merly the death wail of a cut which had tended to so deep apositie.

Since then a daily harvest of rats and cats is regreatly the attendants at the Zoo. They will not continue to monopolize the industry.

since then a daily harvest of rats and cate Since then a daily harvest of rais and cats is reared by the attendants at the Zoo. They are found lying across the wire or on the ground, but the pheasants are safe and can sleep with both eyes shut now, where pefore they had to keen one open if they hoped to be alive the next day.

## GERMANS ABOUT TO WORK ONE IN AFRICA.

Kimberley's Monopoly to Be Broken-Other Diamond Fields Unworked - Fifteen Tons of Gems From Kimberley

-A Monster Awalting a Purchaser. Some German capitalists of Bremen, headed by Senator Achelis, have formed a

syndicate to work the ciamond fields that have recently been discovered in German Southwest Africa. The German newspapers say that it is hoped to develop another

experienced coach cun look aiter the increases of several patrons, particularly if the latter are amenable; and the woman who is not amenable should not accept the services of a coach at all.

Instances there are of women who followed their own iceas in social matters and have won out. When one of these first came to Washington, society presented to be highly amused at her hearty. It ike you so much come and see the often, "I should like to have long talks with you." But she declined to become perfunctory. She lives, as she did in her Western home simply, unaffectedly, hospitably, and she enjoys a large circle of friends.

Another woman who has won on her merits comes from the middle West. Seemingly she prefers her quiet home life in Ohio to Washington society, for she receives a warm welcome for she has receives a warm welcome.

The Australians also are beginning to work diamond mines in New South Wales.

work diamond mines in New South Wales, which promise rich returns. The fields of Brazil, at one time the great source of supply, are quite certain to be as productive as ever when modern methods of diamond mining, backed by abundant capital, are introduced there.

Very little has been done to develop diamond mining along the banks of the Vaal River in South Africa, where the diamonds of that country were first discovered Mines were opened there and they yielded abundantly for two years, until the marvellous richness of the beds at Kimberley

was revealed, in 1869. The Vaal River is of very little use to the navigators, but it has rolled down in its waters great treasure in diamonds which led to the discovery of this great source of riches. The Boer farmers often observed the sparkling stones, "mooi klippe," as they called them, along the Vaal River, but never suspected that they were dia-

monds. A Boer farmer named Schalk van Niekerk was calling one day at the house of a friend and, seeing the children playing with a pretty stone, expressed his admiration of it. Their mother presented it to him. This

was in 1867. He showed it to a trader named John O'Reilly, who, suspecting that it was more valuable than a mere crystal, took it to Cape Town for examination. The stone was pronounced to be a diamond, and it was sold to the Governor of Cape Colony, Sir Philip V odehouse, for \$2,500.

It was two years later that the famous star of South Africa, now in the possession of the Countess of Dudley, was obtained from a Kaffir sorcerer, who had used it as one of his adornments. This stone weighed uncut eighty-three carats and sold for \$55,000. Far north of the Vaal River along the

banks of the Limpopo or Crocodile River, the boundary between the Transvaal colony and Nashona Land, diamonds have been found, though nothing whatever as yet has been done to exploit this field. For all that is known, the region along this river s as rich in diamonds as the Vaal. Diamonds have also been found among

the mountains of the Transvaal, also at two points in Cape Colony at Dutoitspan, only two miles to the southeast of Kimberey, and at Bultfontein. These diggings are less than a quarter of a mile apart. Two diamond centres have also been discovered in the western part of the Orange River Colony, one of which, Jager's Fon-

tein, eighty miles from Kimberley, has yielded about \$250,000 a year, including many fine diamonds. Nost of these regions are entirely undeveloped, because the whole interest centred in Kimberley after its richness was discovered. The time s coming, however, when these other districts will receive the attention they de-Perhaps the Kimberley mines will never be equalled, but it is quite certain that they

present year for a period of about thirtyfive years is little over fifteen tons of diamonds, having a value in excess of \$500. 000,000. In a lecture before Earward and Yale last

The entire product of this field up to the

MANY NEW DIAMOND FIELDS. mining expert, said that a box about eight feet square would contain all these diamonds, the net result of mining over 100,000,000 tons of rock, besides the millions of tons of earth moved in exploratory and dead work. The life of the mines cannot yet be determined, but diamond mining in Kimberley undoubt-

> for as yet no bidders have been found for this white elephant. It was found on July 2, 1893. It weighs nearly 1,000 carats in the rough, or about half a pound avoirdupois, and is 31/2 inches long, about as large as an average goose egg.

It is impossible to determine the value of a diamond of this size. It is of good color, a bank and got \$1,700 but would not cut well. Diamonds lose from 40 to 60 per cent. of their size in cut-

Some idea of the value of this great stone Some idea of the value of this great stone may be suggested by the fact that a diamond of only 180 carats was sold a few years ago by the De Beers Company for \$750,000. As diamonds increase greatly in value with increase of size, the larger stone is supposed to be worth several times that sum. Perhaps the prize will some day fall into the hands of one of the Indian or other Oriental nabobs, who, as is well known, have many of the finest diamonds in their collections.

There is a curious fact connected with the finding of this great stone which illustrates

the vicissitudes of diamond mining. The late Barney Barnato had a contract with the De Beers Company for its entire output from noon July 2, 1892, to noon July 2, 1893. Le quit the mine when the last minute of his contract time e pired, and three hours later the new syndicate which succeeded him in the work found the largest diamond ever

From the Philadelphia Record. In some parts of the West there are great ks of pebbles and boulders in which

natural forces. This gold cannot be obtained by the usual methods of the miner it would not pay him to adopt them, because the particles are so fine and are so scattered that the time consumed in getting them out would be worth

of water, which does the work thoroughly

rounding hills, sluices and waterways are constructed, so that the little streams and rills will send their waters down to a reservoir which is built somewhere within 300 or 400 yards of the cliff that is to be worked and 100 or 150 feet above it. The reservoir having been built an iron pipe, varying in diameter from six to twenty inches, according to the work that is to be done, is lail from to what is called the working level: that is to say, to the point from which the work men will direct the stream thus conveyed to

The nozzle, heavy as it is, is so constructed that it may be directed at any part of the cliff by the hands of one man; and yet if it

at the reservoir is opened and the water begins to run with headlong force down the iron pipe and out at the nozzle, which generally has a diameter of about eight

weights more than a ton, are knocked down and scattered about like corks in the fury of a hurricane.

The force of this stream is almost incredible. It has no power behind it but its own gravity, and as it strikes the cliff it makes a roar that may be heard for more than a mile. It will wash down nore "pay dirt" in one day than 10 000 men could handle with the old-fashioned "rockers".

As the water comes from the nozzle it is like solid ice. Try to stick a knife blade into it and the knife will be jerked from the handle. Try to thrust a crowbar into it—and a strong man may succeed in getting the point half an inch in, but the bar will be wrenched violently from his hands. Nor could the strongest man that lives drive an axe into the stream further than half an inch.

Sometimes a nozzle will tear itself loose from its fastenings, and when that happens the stream deals destruction and death all around it until some one shuts off the water up at the reservoir.

ELECTRIC DEATH FOR RATS. Effective Protection for Small Birds to

Supt. Stephan of the Zoo is thinking of getting out a patent. He has not decided exactly what to call the machine he has re-cently perfected, but in all probability it be named "Stephan's Electric Rat Exterminator." The invention was born of

to secure a good meal, free of charge, was to jump the fence and pick out the one which pleased the fancy of the marauder. Supt. Stephan was the first to discover why so many of these valuable birds were missing every now and then, and it did not take him

winter John - Hays Hammond, the famous

POWERFUL WATER JETS. The Enormous Force of Streams With No Other Power Than That of Gravity.

gold is to be found. It is not there as nuggets, or even as ore, but as fine particles that have been washed down into the depths of the hills by the long-continued action of

more than the product. To the successful working of these pebble cliffs the miner has adapted a stream

unaided by any force except i sown. In many directions, away up on the sur-

At this point a piece of machinery is built, which weiths from one to three tons, and the frame on which it rests is not only securely anchored to the ground, but is weighted down with ten or fifteen tons of rock. And yet it is merely a nozzle jointed to the iron pipe that brings the water from the reservoir. Why it is so heavily weighted down will soon

should, by any unfortunate accident not instantly turned off at the reservoir becomes as unmanageable as a tornado. When everything is ready the sluice cate

The pipeman turns the stream on the cliff, and pebbles and boulders, some of the latter weighing more than a ton, are knocked down and scattered about like corks in the lury